

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts
FORWARD CURRENT - 2.0 Amperes

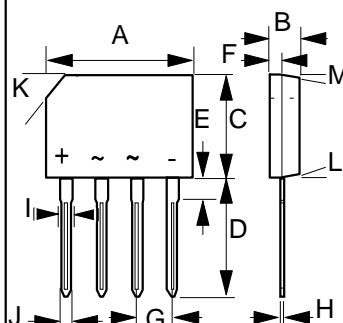
FEATURES

- Rating to 600V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL recognized file # E95060

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

GBL



GBL		
DIM.	MIN.	MAX.
A	20.2	20.8
B	3.30	3.70
C	10.70	11.30
D	17.50	18.00
E	2.30	2.70
F	0.80	1.20
G	4.83	5.33
H	0.40	0.60
I	1.95	2.35
J	1.02	1.27
K	3.2 x 45°	
L	-	5°
M	-	5°
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBL2005	GBL201	GBL202	GBL204	GBL206	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current @T _c =120°C	I _(AV)	with Heatsink without Heatsink			2.0 1.5		A
Peak Forward Surge Current 8.3ms single half sine-wave @ @T _A =25°C	I _{FSM}				120		A
Maximum forward Voltage at 1.0A DC	V _F				0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R				5 500		uA
I ² t Rating for fusing (t < 8.3ms)	I ² t				60		A ² S
Typical Junction Capacitance per element (Notice1)	C _J				40		pF
Typical Thermal Resistance (Note 2)	R _{θJC}				10		°C/W
Operating Temperature Range	T _J				-55 to +150		°C
Storage Temperature Range	T _{STG}				-55 to +150		°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

FIG.1 - FORWARD CURRENT DERATING CURVE

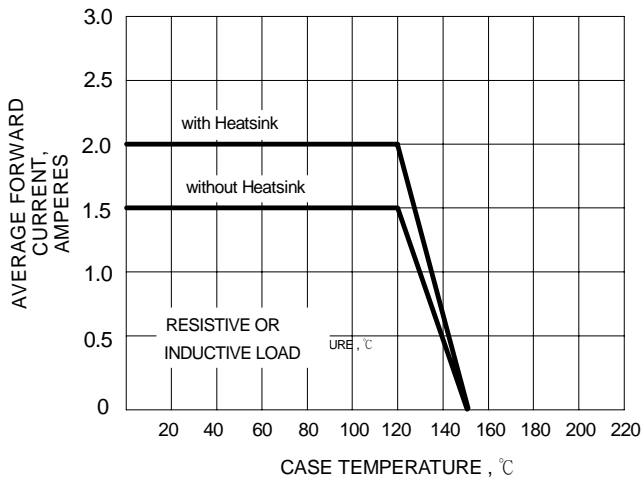


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

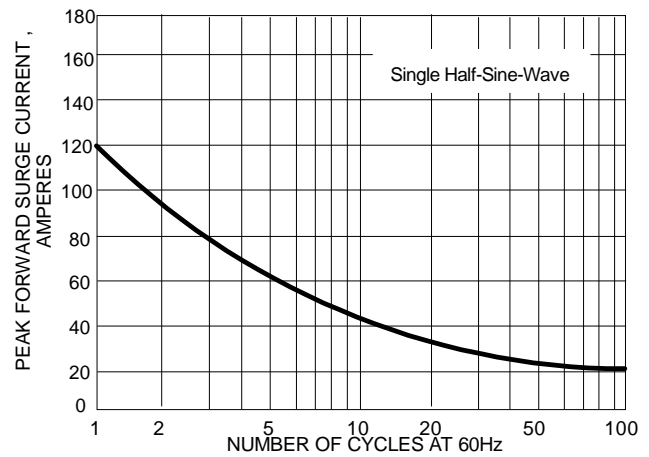


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

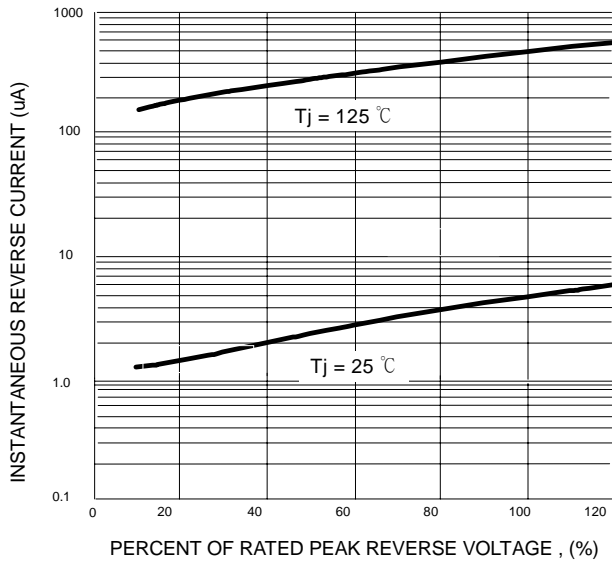


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

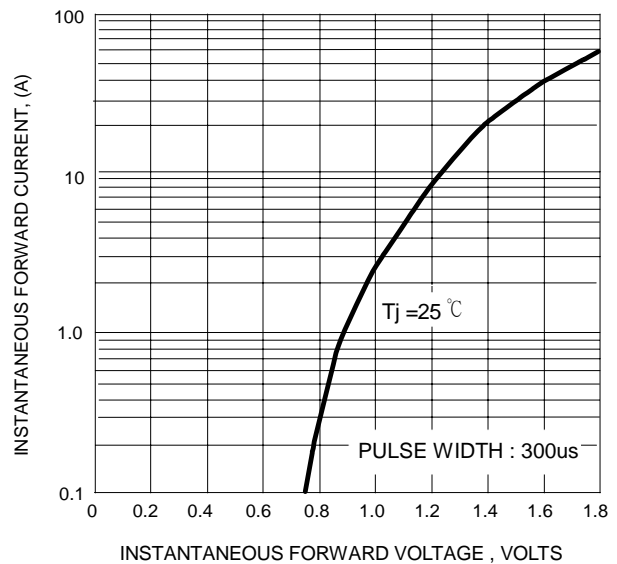


FIG.5 - TYPICAL JUNCTION CAPACITANCE

